

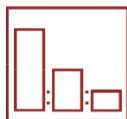
Desothane[®] HS CA8001B0900C HS Clearcoat

Product Description

CA8001B0900C is a polyurethane clearcoat, designed for the protection of aircraft exterior surfaces.

- High solids, Low VOC
- Chemical resistant
- Excellent flexibility
- Excellent UV durability
- Improves durability of Desothane[®] HS CA8000 topcoat
- For use with Desothane[®] HS CA8000 Mica system

Components



Mix Ratio (by volume)

- | | |
|-----------------------|----------|
| • CA8001B0900C (Base) | 2 parts |
| • CA8000B (Activator) | 1 part |
| • CA8000C (Reducer) | 0.5 part |

Specifications



CA8001B0900C is qualified to:

- AIMS 04-04-022
- AIMS 04-04-023

Product Compatibility

CA8001B0900C is compatible with the following topcoat specifications:

- | | |
|------------------|---------------|
| • AIMS 04-04-012 | • BAMS 565-09 |
| • AIMS 04-04-013 | • BMS 10-60 |
| • AIMS 04-04-031 | • BMS 10-72 |
| • AIMS 04-04-032 | • DHMS C4.04 |

Note: PPG Aerospace recommends you check the most recent specification QPLs for updated information.

CA8001B0900C

Desothane[®] HS CA8001B0900C HS Clearcoat

Surface Preparation and Pretreatment



Ensure surface is clean, dry and intact using a high performance solvent cleaner. DeSoto[®] CN20 or Desoclean[™] 45 solvent cleaners are recommended. Observe recommended overcoating windows as per drying table below. If sanding of previous coats is required, use fine Scotch-Brite[®] pad and wipe clean with propyl alcohol prior to application of CA8001B0900C.

Instructions for Use



Base component should be manually stirred only. Ensure all components are adequately mixed. Add activator to base and stir thoroughly then add reducer. **DO NOT ADJUST VISCOSITY.**

Note: All products and components should be placed in ambient conditions of 15-30°C (59-86°F) for at least 24 hours prior to mixing and application.



Induction Time:

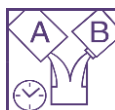
Not required



Viscosity: (23°C/73°F)

• AFNOR4	14 - 17 seconds
• BSB3	25 - 32 seconds
• ISO4	17 - 27 seconds
• ZAHN2	15 - 21 seconds

Note: Viscosities quoted are typical ranges obtained when using specified mix ratio.



Pot Life:

2 hours @ 21 - 25°C (70 - 77°F)

Application Guidelines

Recommended Application Conditions:

Temperature	15 - 30°C (59 - 86°F)
Relative Humidity	30 - 80%

Application:

Apply a full single track coat followed by a double track coat. Refer to below drying table for recommended overcoating intervals.

Theoretical Coverage: (ready for use)

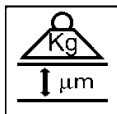
9 m²/Lt @ 50 µm dry film thickness
360 ft²/US gal @ 2 mil dry film thickness



Desothane[®] HS CA8001B0900C HS Clearcoat

Recommended Dry Film Thickness:

40 - 60 μm
1.6 - 2.4 (mil)



Dry Film Density:

1.13 g/cm^3
9.42 lbs/US gal

Dry Film Weight:

56 g/m^2 @ 50 μm dry film thickness
0.011 lbs/ft² @ 2 mil dry film thickness

Note: These application guidelines represent PPG's best advice for usage in standard conditions. Some parameters will be influenced by environmental conditions, equipment settings, and other variables.

Equipment:



Equipment Type	Tip Size	Flow Rate	Pressure
Airmix	611	280 to 320 ml/min	725 to 870 psi (50 to 60 bar)
HVLP Air Spray	1.2 to 1.4 mm		14 psi (1 bar)
Conventional Air Spray	1.4 to 1.5 mm		43 to 72 psi (3 to 5 bars)
Airless	Not Recommended		
Air assisted Airless Electrostatic	611	280 to 320 ml/min	43 to 72 psi (3 to 5 bar)
Low Pressure Electrostatic	1.2 to 1.5 mm	220 to 320 ml/min	58 to 87 psi (4 to 6 bar)

Note: Pressure may need to be optimised to suit local conditions

Equipment Cleaning:

Clean spray equipment before use and as soon as possible after use. DeSoto[®] CN20 or Desoclean[™] 45 solvent cleaners are recommended.

Desothane® HS CA8001B0900C HS Clearcoat

Physical Properties



Colour:
Colourless



Gloss:
> = 90 units with a 60° gloss meter

Drying Times

Drying times of CA8001B0900C

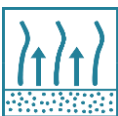


Drying Times @ 50% Relative Humidity	23°C (73°F)	60°C (140°F)
Time Between Coats	1 to 1.5 Hours	
Dry to Overcoat	8 to 72 hours	
Full Cure	7 Days	2 - 3 Hours

Drying times of CA8000 prior to overcoating with CA8001B0900C

	CA8000C	CA8000C1	CA8000C2	CA8000C3
CA8000 Overcoat Time (if sanding is not required)	4 to 6 hours	3 to 4 hours	1 to 2 hours	0.5 to 1 hour
CA8000 Overcoat Time (if sanding is required)	24 hours	12 hours	2 to 3 hours	1 to 2 hours
CA8000 Mica Overcoat Time	6 to 7 hours	4 to 5 hours	2 to 3 hours	1 to 2 hours

Note: Drying times listed above are dependent upon film thickness applied, air flow conditions and application technique.



Flash Off Time:
30 minutes prior to force drying

VOC

VOC: (ASTM)

Mixed ready for use	495 g/Lt
CA8001B0900C Base	590 g/Lt
CA8000B Activator	110 g/Lt
CA8000C Reducer (all types)	865 g/Lt

Desothane[®] HS CA8001B0900C HS Clearcoat



Flash Point:

CA8001B0900C Base	22°C (72°F)
CA8000B Activator	47°C (117°F)
CA8000C (all types) Reducer	22°C (72°F)

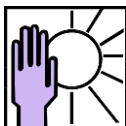
Shelf Life:

CA8001B0900C Base	24 months in original unopened container
CA8000B Activator	24 months in original unopened container
CA8000C (all types) Reducer	10 years in original unopened container

Note: Shelf life may vary due to OEM specification requirements. Refer to container label for specific shelf life information.

Note: The application and performance property values above are typical for the material, but not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.

Storage Recommendations



Inspect the condition of the container to ensure compliance. The material should be stored at temperatures between 5°C to 35°C (41°F to 95°F) to ensure shelf life.

Note: When procuring to a qualified material specification, follow those storage instructions.

Desothane® HS CA8001B0900C HS Clearcoat

Health Precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An SDS is available on request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

For industrial use only. Keep away from children.

Additional information can be found at: www.ppgaerospace.com

For sales and ordering information call the local PPG office at the numbers listed below:

Asia Pacific

ASC – Australia

Tel 61 (3) 9335 1557

Fax 61 (3) 9335 3490

ASC – Japan

Tel 81 561 35 5200

Fax 81 561 35 5201

ASC – South East Asia

Tel 65 6861 1119

Fax 65 6861 6162

ASC – Suzhou

Tel (86-512) 6661 5858

Fax (86-512) 6661 6868

ASC – Tianjin

Tel (86-022) 2482 8625

Fax (86-022) 2482 8600

Europe and Middle East

ASC – Central Europe

Tel 49 (40) 742 193 10

Fax 49 (40) 742 139 69

ASC – Middle East & India

Tel (971) 4 883 9666

Fax (971) 4 883 9665

ASC – North Europe

Tel 44 (0) 1388 770222

Fax 44 (0) 1388 770288

ASC - South Europe

Tel 33 (0) 235 53 43 71

Fax 33 (0) 235 53 54 44

Americas

1 (818) 362-6711 or 1-800-AEROMIX

Desoclean, Desothane, and DeSoto are trademarks of PRC-DeSoto International, Inc.

Scotch-Brite is a trademark of 3M

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

This document has been reviewed by the PPG Aerospace Export Control Department and has been determined to contain only EAR99 controlled data

PPG Aerospace

Sealants and Coatings

Darlington Road

Shildon, Co Durham UK

DL4 2QP

www.ppgaerospace.com

Issue Date: 08/23

Lit: 4284